SW2 VGA DA2

Two Input, Two Output VGA and Stereo Audio Switchers

SERIES FEATURES

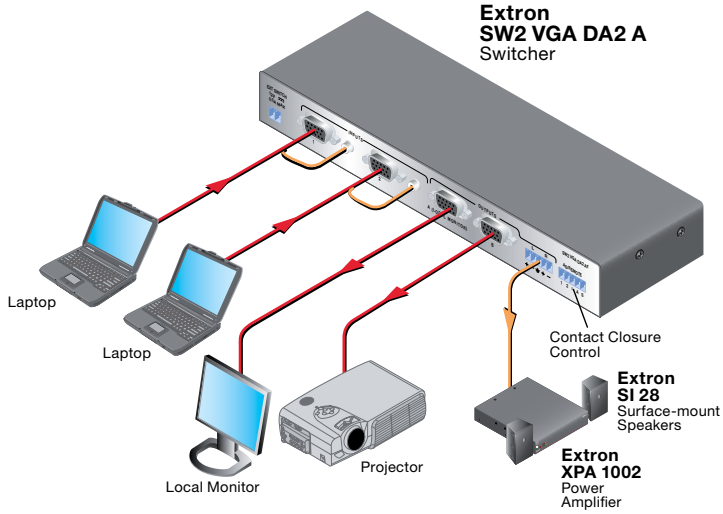
- **Inputs: Two female 15-pin HD connectors for computer-video; two 3.5 mm stereo mini jacks for audio**
- **Outputs: Two female 15-pin HD connectors for computer-video; captive screw connector for audio**
- **300 MHz (-3 dB) RGB video bandwidth**
- **Compatible with VGA-QXGA and HDTV component video signals**
- **Auto-input switching** — Automatically switches to the highest-numbered input with an active video signal.
- **Each output individually buffered**
- **Contact closure remote control**
- **Active PC audio to balanced audio interfacing**
- **3" deep enclosure**

DESCRIPTION

The Extron **SW2 VGA DA2 AF R**, **SW2 VGA DA2 A**, and **SW2 VGA DA2 AF** are combination active switchers and distribution amplifiers for VGA and stereo audio signals. Each switcher in this family provides two inputs and dual, independently buffered outputs. These mountable switcher/distribution amplifiers provide 300 MHz (-3 dB) RGB video bandwidth. All three switchers are compatible with VGA-QXGA signals and HDTV component video signals.

The SW2 VGA DA2 AF R is a one-box solution for professional presentation environments. It has two female 15-pin HD connectors for computer-video — one on the front panel for easy laptop hookup and one on the rear panel for PCs installed in a fixed location, each with a mini jack for audio input. Two female 15-pin HD outputs are located on the back panel for connection to display devices such as a preview monitor and projector with one balanced/unbalanced stereo audio output on captive screw connector for an audio amplifier. In addition, the SW2 VGA DA2 AF R can be both rack-mounted and furniture-mounted. The 1U metal enclosure ships with detachable ears for rack mounting. This switcher also features an internal universal power supply with an unswitched power connector, eliminating the need for costly electrical wiring to podiums, tables, and other installation surfaces. In addition, two spaces for AAP - Architectural Adapter Plates provide optional connection access for most peripheral equipment, including RJ-45 and RJ-11 data and phone jacks. The SW2 VGA DA2 AF R also features tactile buttons with LEDs, and can be remotely controlled via contact closure. This model offers both a manual and an auto-input switching mode.

For presentation environments that do not require rack mounting or an additional power source, the SW2 VGA DA2 A and SW2 VGA DA2 AF are the ideal solutions. Both are furniture-mountable, feature auto-input switching, and are powered by 12 VDC through captive screw connectors. An external universal power supply is included. The difference between the two is the input connector locations. The SW2 VGA DA2 A offers all input connections on the back panel. The SW2 VGA DA2 AF offers one female 15-pin HD connector and one 3.5 mm stereo mini jack for audio through the front panel. All other connectors are on the back panel. Front panel access makes the SW2 VGA DA2 AF useful in applications where one computer-video source is in a fixed location, and the second source is a laptop computer.



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Extron®

SW2 VGA DA2 A

Two Input, Dual Output VGA and Stereo Audio Switcher with Rear Panel Inputs

UNIQUE FEATURES

- Rear panel inputs
- External universal power supply included, replacement part # 70-775-01

MODEL	VERSION DESCRIPTION	PART #
SW2 VGA DA2 A	Rear Inputs	60-297-11

SW2 VGA DA2 AF

Two Input, Dual Output VGA and Stereo Audio Switcher with Front and Rear Panel Inputs

UNIQUE FEATURES

- Front and rear panel inputs
- External universal power supply included, replacement part # 70-775-01

MODEL	VERSION DESCRIPTION	PART #
SW2 VGA DA2 AF	Front & Rear Inputs	60-297-12

SW2 VGA DA2 AF R

1U, Two Input, Dual Output VGA and Stereo Audio Switcher with Front and Rear Panel Inputs

UNIQUE FEATURES

- Front and rear panel inputs
- Front panel A/C outlet - USA Edison Female
- Openings for two single space AAP - Architectural Adapter Plates
- Removable rear cover for easy AAP installation
- Rack mount brackets included
- Internal universal power supply
- 1U, full rack width metal enclosure

MODEL	VERSION DESCRIPTION	PART #
SW2 VGA DA2 AF R	1U with Front & Rear Inputs	60-368-11

SW2 VGA DA2 Accessories

INCLUDED ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
For SW2 VGA DA2 AF R only			
MBD 123	1U Full Rack Width Rack Mount for Two-Piece Enclosures	page 856	70-485-01
OPTIONAL ACCESSORIES	**MODEL DESCRIPTION**	**PAGE**	**PART #**
For SW2 VGA DA2 A and SW2 VGA DA2 AF			
RSU 126	1U 6" Deep Universal Rack Shelf Kit	page 858	60-190-10
MBU 125	1U, 1/2 & 1/4 Rack Width, Under-Desk Mount Kit for Two-Piece Enclosure	page 854	70-077-01
MBD 129	1U, 1/2 & 1/4 Rack Width Through-Desk Mount Kit for Two-Piece Enclosure	page 856	70-077-02
For SW2 VGA DA2 AF R			
MBU 123	VersaTools® Mini Under-Desk Mount Kit	page 854	70-212-01
For all models			
IR 102 Remote Control Kit	IR to RS-232 or Contact Closure Conversion Kit	page 280	70-224-01
PS 1210 C	12V, 1A Power Supply, Captive Screw	page 732	70-775-01

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SW2 VGA DA2

SPECIFICATIONS

VIDEO

Gain ..... Unity
Bandwidth ..... 300 MHz (-3 dB)

VIDEO INPUT

Number/signal type ..... 2 VGA-UXGA RGBHV, RGBS, RGsB*, RsGsBs*, HDTV component video*
Connectors ..... 2 VGA female 15-pin HD
Nominal level ..... 1.0 Vp-p for Y of component video
0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels ..... Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance ..... 75 ohms
Horizontal frequency ..... 15 kHz to 145 kHz
Vertical frequency ..... 30 Hz to 170 Hz

VIDEO OUTPUT

Number/signal type ..... 2 buffered VGA-UXGA RGBHV, RGBS, RGsB*, RsGsBs*, HDTV component video*
Connectors ..... 2 VGA 15-pin HD female
Nominal level ..... 1.0 Vp-p for Y of component video
0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels ..... 0.4 V to 1.8 Vp-p (follows input)
Impedance ..... 75 ohms

NOTE: *RGsB, RsGsBs, and HDTV component video inputs and outputs work in manual mode only. Autoswitching requires TTL level sync on pin 13 of the 15-pin HD connector.

SYNC

Input type ..... RGBHV, RGBS, RGsB*, RsGsBs*, bi-level and tri-level sync
Output type ..... RGBHV, RGBS, RGsB*, RsGsBs*, bi-level and tri-level sync
Input level ..... 1.7 V to 5.0 Vp-p
Output level ..... TTL: 5.0 Vp-p, unterminated
Input impedance ..... 510 ohms
Output impedance ..... 50 ohms
Max. input voltage ..... 5.0 Vp-p
Max. rise/fall time ..... 40 ns
Polarity ..... Positive or negative (follows input)

AUDIO

Gain ..... Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response ..... 20 Hz to 20 kHz, ±0.05 dB
THD + Noise ..... 0.03% @ 1 kHz at nominal level
S/N ..... >90 dB at maximum output (unweighted)
Crosstalk ..... <-65 dB @ 20 kHz, <-80 dB @ 1 kHz and below 60 Hz
Stereo channel separation ..... >80 dB @ 1 kHz
CMRR ..... >75 dB @ 20 Hz to 20 kHz

AUDIO INPUT

Number/signal type ..... 2 stereo, unbalanced
Connectors ..... (2) 3.5 mm female stereo jacks
Impedance ..... >10k ohms, balanced/unbalanced, AC coupled
Nominal level ..... -10 dBV (316 mVrms)
Maximum level ..... +8 dBV, (balanced or unbalanced) at 1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

AUDIO OUTPUT

Number/signal type ..... 1 stereo, balanced/unbalanced
Connectors ..... (1) 3.5 mm captive screw connector, 5 pole
Impedance ..... 50 ohms unbalanced, 100 ohms balanced
Gain error ..... ±0.1 dB channel to channel
Nominal level ..... -2 dBu balanced, -10 dBV (316 mVrms) unbalanced
Maximum level (Hi-Z) ..... >+16 dBu, balanced; >+8 dBV, unbalanced at 1% THD+N
Maximum level (600 ohm) ..... >+10 dBm, balanced; >+4 dBV, unbalanced at 1% THD+N

CONTROL/REMOTE — SWITCHER

Contact closure ..... Momentary, on a 3.5 mm captive screw connector
Contact closure pin configurations
1 = Input #1, 2 = Input #2

GENERAL

Power
SW2 VGA DA2 A/AF's external power supply
100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 1 A power supply, regulated
SW2 VGA DA2 A/AF's power input requirements
12 VDC, 0.2 A
SW2 VGA DA2 AF R ..... 100 VAC to 240 VAC, 50/60 Hz, 12 watts, internal
Temperature/humidity ..... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling ..... Convection, unvented
Rack mount
SW2 VGA DA2 A/AF ..... Yes, with optional 1U, 9.5" deep rack shelf, part #60-190-01 (RSU 129) or 60-604-01 (RSB 129); 1U, 6" deep rack shelf, part #60-190-10 (RSU 126) or 60-604-10 (RSB 126); or VersaTools® 1U, 3.5" deep rack shelf, part #60-190-20 (RSV 123) or 60-604-20 (RSB 123)
Furniture mountable with included under-desk mounting kit, part #70-077-01 (MBU 125)
Attachable to a projector mount with optional PMK 200 projector mount kit, part #70-077-04
SW2 VGA DA2 AF R ..... Yes, with included rack mounting kit, part #70-485-01 (MBD 123)
Furniture mountable with optional VersaTools under-desk mounting kit, part #70-212-01 (MBU 123)
Enclosure type ..... Metal
Enclosure dimensions
SW2 VGA DA2 A/AF ..... 1.0" H x 8.75" W x 3.0" D
2.5 cm H x 22.2 cm W x 7.6 cm D
(Depth excludes connectors.)
SW2 VGA DA2 AF R ..... 1.75" H x 17.4" W x 3.0" D (1U high, full rack wide)
4.4 cm H x 44.2 cm W x 7.6 cm D
(Depth excludes connectors.)
Product weight
SW2 VGA DA2 A/AF ..... 1.1 lbs (0.5 kg)
SW2 VGA DA2 AF R ..... 2.6 lbs (1.2 kg)
Shipping weight
SW2 VGA DA2 A/AF ..... 4 lbs (2 kg)
SW2 VGA DA2 AF R ..... 7 lbs (4 kg)
Vibration ..... ISTA 1A in carton (International Safe Transit Association)
Listings ..... UL, CUL
Compliances ..... CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF ..... 30,000 hours
Warranty ..... 3 years parts and labor

NOTE: All nominal levels are at ±10%.
NOTE: Specifications are subject to change without notice.

Note: For complete specifications, please go to www.extron.com

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